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DATE MAILED: 03/10/2010

NOTICE OF ALLOWANCE AND FEE(S) DUE

7055 7590 03/10/2010 GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE RESTON, VA 20191 EXAMINER

GRAMLING, SEAN P

ART UNIT PAPER NUMBER

2875

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/596,019	05/25/2006	Kouji Nishioka	P30024	1772			
TITLE OF INVENTION; LIGHT EMITTING DEVICE USING LIGHT EMITTING DIODE CHIP							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/10/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed oth ions.	or transmitting ig the Patent, ad ierwise in Block	the ISSI Ivance o : 1, by (JE FEE and PUBLICATI rders and notification of r a) specifying a new corres	ON FEE (if requirements of the contract of the	red). I ill be and/or	Hocks 1 through 5 s mailed to the current (b) indicating a sepa	ould be comple correspondence rate "FEE ADD	ted where address as RESS" for
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nonprovisional	NO	\$1510		\$300	\$0		\$1810	06/10/2	010
EXAM	INER	ART UNI	Т	CLASS-SUBCLASS					
GRAMLING		2875		362-293000					
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 1/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA	nge of Corresponding of Corresponding of Corresponding of the Correspond	ndence stomer ED ON	2. For printing on the p (I) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be THE PATENT (print or type data will appear on the p of a substitute for filing an automatical forms.)	3 registered patent yely, e firm (having as a gent) and the name meys or agents. If r printed.	memb s of u so nam	er a 2 o to e is 3	ocument has bee	n filed for
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	SMALL ENTITY state	s. See 37 CFR I		☐ b. Applicant is no lon					
NOTE: The Issue Fee and interest as shown by the r	I Publication Fee (if req ecords of the United Sta	aired) will not be tes Patent and Ti	accepte rademark	d from anyone other than to Office.	he applicant; a regis	tered :	uttorney or agent; or th	e assignee or oth	er party in
Authorized Signature					Date				
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1950 ROLAND C		ART UNIT	PAPER NUMBER		
RESTON, VA 20	191		2875		
			DATE MAILED: 03/10/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 234 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 234 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/596 019 NISHIOKA ET AL. Notice of Allowability Examiner Art Unit SEAN P GRAMLING 2875 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to Amendment filed 11/18/09. The allowed claim(s) is/are 1-18. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. \(\overline{\text{ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. | Notice of References Cited (PTO-892)

Paper No./Mail Date 9/3/09

of Biological Material

2. Notice of Draftperson's Patent Drawing Review (PTO-948)

4. ☐ Examiner's Comment Regarding Requirement for Deposit

Information Disclosure Statements (PTO/SB/08).

Notice of Informal Patent Application
 Interview Summary (PTO-413),

Paper No./Mail Date ____.

7.

Examiner's Amendment/Comment

8.

■ Examiner's Statement of Reasons for Allowance

9. 🔲 Other _____.

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DETAILED ACTION

Amendment

 Acknowledgment is made of Amendment filed November 18, 2009. Claims 1-6 are amended. Claims 1-18 are pending.

Allowable Subject Matter

- Claims 1-18 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:
- 4. Regarding claim 1, the prior art of record neither anticipates nor renders obvious the collective limitations of the claim, including a light emitting device using an LED chip comprising a mounting substrate having a recess, the LED chip being mounted on a bottom of the recess; a sheet-like wavelength converter disposed so as to cover the recess and an edge area around the recess; and an emission controller provided at a light output side of the sheet-like wavelength converter so as to allow emission of light coming from an area of the sheet-like wavelength converter that corresponds to the recess and to prevent emission of light coming from an area of the sheet-like wavelength converter that corresponds to the edge area around the recess. Claims 2-16 are allowable in that they are dependent on, and further limit claim 1.
- 5. Regarding claim 17, the prior art of record neither anticipates nor renders obvious the collective limitations of the claim, including a light emitting device using an LED chip comprising a mounting substrate having a recess, the LED chip being mounted on a bottom of the recess; a wavelength converter disposed so as to cover the

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recess and an edge area around the recess; and an emission controller provided at a light output side of the wavelength converter so as to allow emission of light coming from an area of the wavelength converter that corresponds to the recess and to prevent emission of light coming from an area of the wavelength converter that corresponds to the edge area around the recess, wherein the wavelength converter has a cross section that is convex at the light output side such that light paths having different observation angles are substantially equal in length.

6. Regarding claim 18, the prior art of record neither anticipates nor renders obvious the collective limitations of the claim, including a light emitting device using an LED chip comprising a mounting substrate having a recess, the LED chip being mounted on a bottom of the recess; a wavelength converter disposed so as to cover the recess and an edge area around the recess; and an emission controller provided at a light output side of the wavelength converter so as to allow emission of light coming from an area of the wavelength converter that corresponds to the recess and to prevent emission of light coming from an area of the wavelength converter that corresponds to the edge area around the recess, wherein a density of a wavelength converting material in the wavelength converter increases toward a center of the wavelength converter reducing observation angle variations of color and intensity of light.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Response to Arguments

 Applicant's arguments filed November 18, 2009 with respect to the rejections in the previous Office Action have been fully considered and are persuasive. Therefore the rejections have been withdrawn.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEAN P. GRAMLING whose telephone number is (571)272-9082. The examiner can normally be reached on MONDAY-FRIDAY 7:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sean P Gramling Examiner Art Unit 2875

/SPG/

/Sandra L. O'Shea/ Supervisory Patent Examiner, Art Unit 2875